

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Material comprising a hydrogen storage component selected from (a) alkali alanate, (b) a mixture of aluminum metal with alkali metal hydride, and(c) magnesium hydride and (d) mixtures thereofof any of (a)-(c), wherein the hydrogen storage component is encapsulated in a porous matrix.
2. (Previously Presented) Material according to claim 1, wherein said porous matrix is selected from solid inorganic materials.
3. (Previously Presented) Material according to claim 1, wherein said porous matrix comprises porous metal organic frameworks.
4. (Currently Amended) Material according to claim 1, wherein the hydrogen storage component comprises a transition metal, transition metal compound, rare-earthrare-earth metal and/or rare-earthrare-earth metal compound.
5. (Currently Amended) Process for preparing a material comprising a hydrogen storage component selected from (a) alkali alanate, (b) a mixture of aluminum metal with alkali metal and/or alkali metal hydride, and(c) magnesium hydride and (d) mixtures thereofof any of (a)-(c), comprising the steps of impregnating a porous matrix material with a solution and/or suspension of said hydrogen storage component in an organic solvent and removing the organic

solvent.

6. (Canceled).

7. (Previously Presented) A vehicle comprising a fuel cell system supplied with hydrogen from a material according to claim 1.

8. (Currently Amended) Material according to claim 42, wherein said solid inorganic materials are selected from the group consisting of porous carbon, mesostructured carbon, carbon xerogel, carbon aerogel, silica aerogel, silica xerogel, and zeolite.

9. (Currently Amended) A method of storing and releasing hydrogen, comprising :

- a) providing a material according to claim 1; and
- b) storing and releasing hydrogen from said material.